PHILIPS

TB 2/200

TRIODE for use as H.F. or L.F. amplifier or oscillator
TRIODE pour utilisation comme amplificatrice H.F. ou B.F. ou oscillatrice
TRIODE zur Verwendung als HF- oder NF-Verstärker oder Oszillator

Filament : thoriated tungsten
Filament : tungstène thorié
Heizfaden: thoriertes Wolfram

Heating : direct
Chauffage: direct
Heizung : direkt

V_f = 12 V
I_f = 2,7 A

Capacitances
Capacités
Kapazitäten

C_a = 5,4 pF
C_g = 8,2 pF
C_{ag} = 5,5 pF

Typical characteristics
Caractéristiques types
Kenndaten

μ = 27
S (I_a=50 mA)= 4,2 mA/V

λ	Freq.	C telegr.		B teleph.		Can. mod.		B mod [1]	
m	Mc/s	V_a (V)	W_o (W)	V_a (V)	W_o (W)	V_a (V)	W_o (W)	V_a (V)	W_o (W)
>6,5	<46	2000	275	2000	60	1600	160	2000	540
		1500	200	1500	57	1200	100	1600	240
5	60	1500	200	1500	48	1200	85	1200	168
3	100	1050	120						

Limiting values
Caractéristiques limites
Grenzdaten

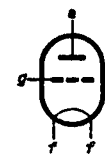
V_a = max. 2000 V
W_a = max. 130 W
W_g = max. 18 W
R_g = max. 25 kΩ
I_k = max. 230 mA

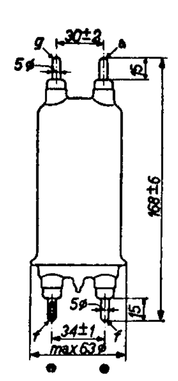
[1]) Two tubes; deux tubes; zwei Röhren

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Temperature of pin seals Température des scellements des broches Temperatur der Stiftendurchführungen	= max. 220 °C
Bulb temperature Température de l'ampoule Kolbentemperatur	= max. 250 °C

Dimensions in mm
Dimensions en mm
Abmessungen in mm





Socket Support Fassung	40206	Clips Bornes de connexion Anschlussklemmen	40600
Key Clé Schlüssel	40608		

Mounting position: vertical with base up[1]) or down
Montage : vertical avec pied en haut[1]) ou en bas
Einbau : senkrecht mit Sockel oben[1]) oder unten

Net weight Poids net Nettogewicht	160 g	Shipping weight Poids brut Bruttogewicht	400 g

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[1]) In that case the tube should be supported
Dans ce cas le tube doit être supporté
In diesem Fall ist die Röhre zu stützen

Operating conditions H.F. class C telegraphy
Caractéristiques d'utilisation H.F. classe C télégraphie
Betriebsdaten H.F. Klasse C Telegraphie

λ =	>6,5	>6,5	5 [1])	m
Va =	2000	1500	1500	V
Vg =	-150	-120	-120	V
Ia =	190	190	400	mA
Ig =	25	35	50	mA
Vgp =	280	270	290	V
Wig =	7	10	15	W
Wia =	380	285	600	W
Wa =	105	85	200	W
Wo =	275	200	400	W
η =	72	70	67	%

Operating conditions H.F. class B telephony
Caractéristiques d'utilisation H.F. classe B téléphonie
Betriebsdaten Klasse B Telephonie

λ =	>6,5	>6,5	5 [1])	m
Va =	2000	1500	1500	V
Vg =	-60	-45	-45	V
Ia =	95	118	210	mA
Vgp =	80	90	90	V
Wia =	190	177	315	W
Wa =	130	120	220	W
Wo =	60	57	95	W
η =	31,5	32	30	%
m =	100	100	100	%
Ig =	25	35	70	mA
Wig =	4	6,3	13	W

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[1]) Two valves; deux tubes; zwei Röhren

Operating conditions H.F. class C anode modulation
Caractéristiques d'utilisation H.F. classe C modulation d'anode
Betriebsdaten H.F. Klasse C Anodenmodulation

λ =	>6,5	>6,5	5 [1])	m
Va =	1600	1200	1200	V
Vg =	-200	-180	-180	V
Ia =	135	120	240	mA
Ig =	35	30	50	mA
Vgp =	330	320	320	V
Wig =	11,5	10	16	W
Wia =	216	144	288	W
Wa =	56	44	118	W
Wo =	160	100	170	W
η =	74	70	59	%
m =	100	100	100	%
Wmod =	108	72	144	W

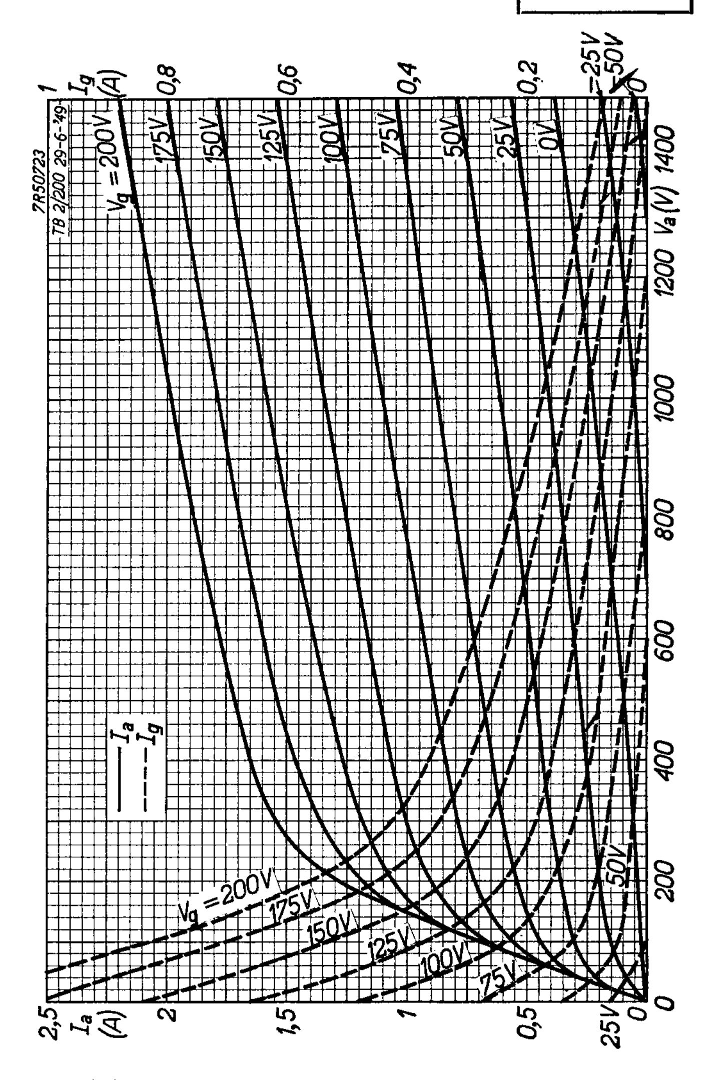
Operating conditions as L.F. class B modulator [1])
Caractéristiques d'utilisation en modulatrice B.F. classe B 1)
Betriebsdaten als N.F. Klasse B Modulator [1])

Va =	2000		1600		1200		V
Vg =	-70		-55		-40		V
Raa =	13,2		20		16		kΩ
Vggp =	0	300	0	210	0	180	V
Ia =	2x20	2x180	2x18	2x100	2x17	2x93	mA
Ig =	0	2x15	0	2x6	0	2x10	mA
Igp =	0	2x130	0	2x50	0	2x100	mA
Wig =	0	2x2	0	2x0,5	0	2x0,8	W
Wia =	2x40	2x360	2x29	2x160	2x20,4	2x112	W
Wa =	2x40	2x90	2x29	2x40	2x20,4	2x28	W
Wo =	0	540	0	240	0	168	W
η =	-	75	-	75	-	75	%

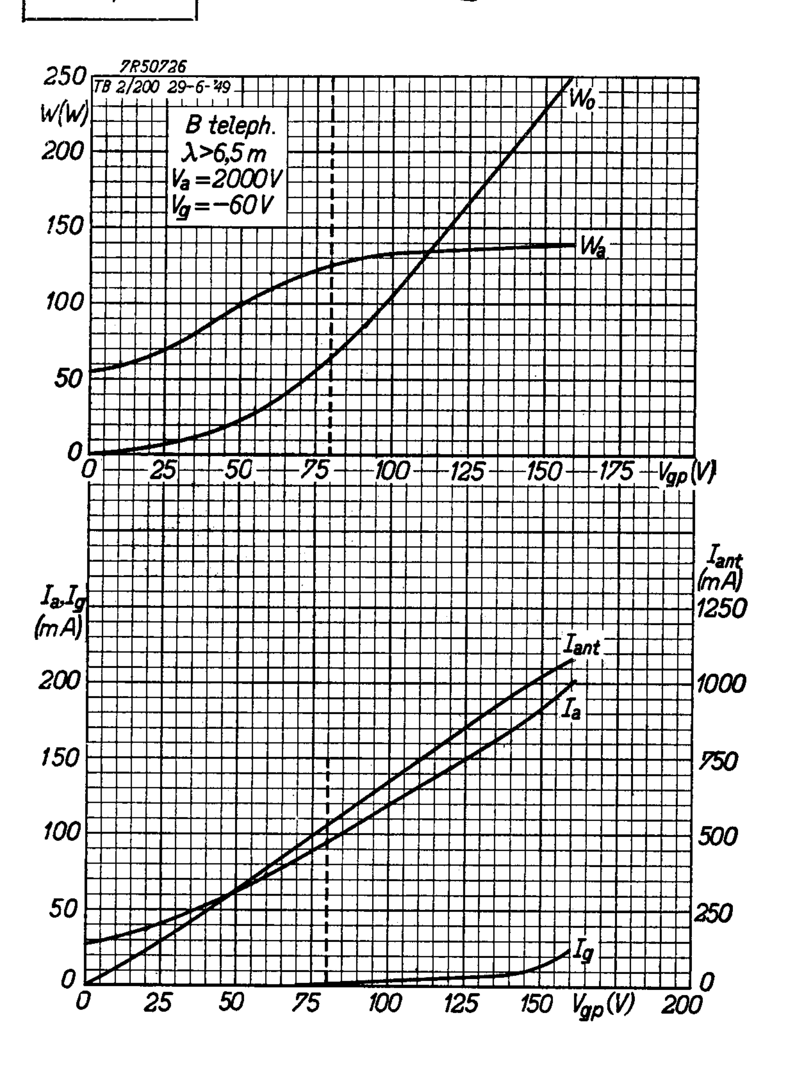
[1]) Two valves; deux tubes; zwei Röhren

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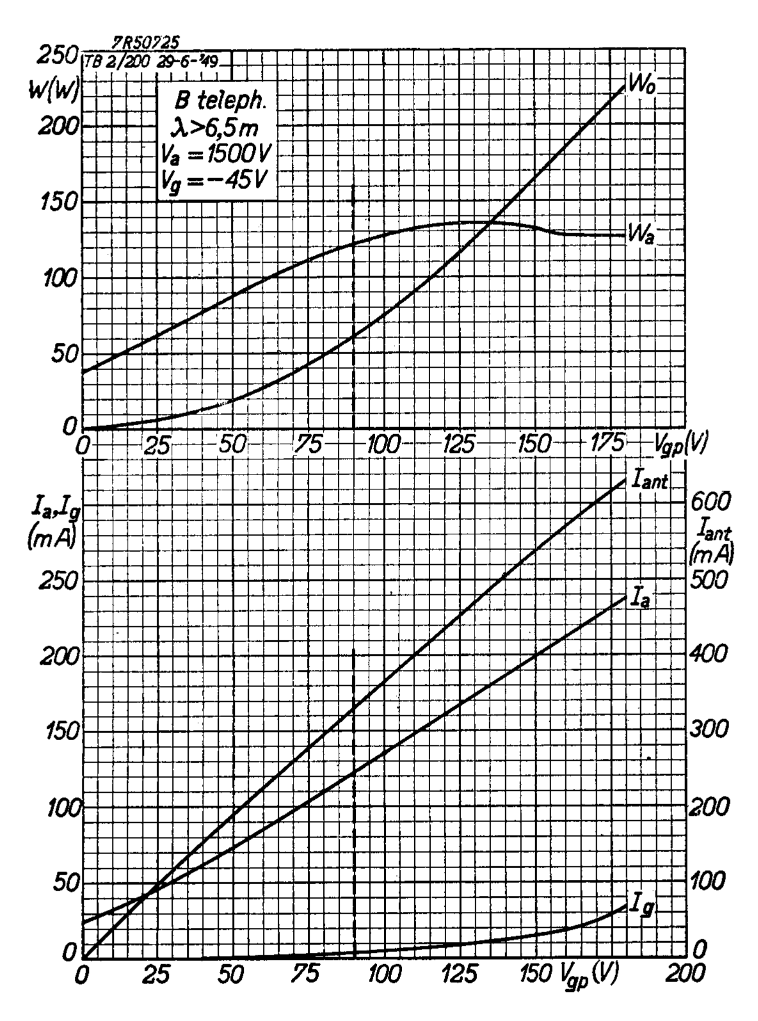
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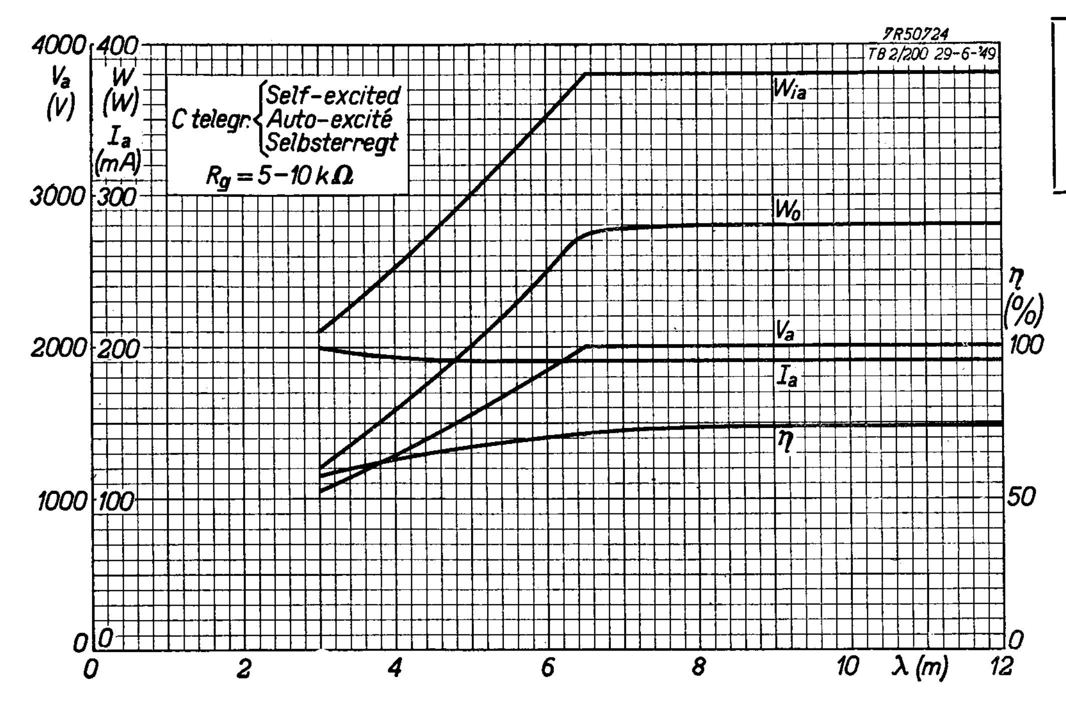
B



7R50725
TB 2/200 29-6-'49
B teleph.
λ>6,5 m
Va = 1500 V
Vg = −45 V
W(W)
Wo
Wa
Vgp(V)
Ia,Ig (mA)
Iant
Iant (mA)
Ia
Ig
Vgp (V)

TB 2/200

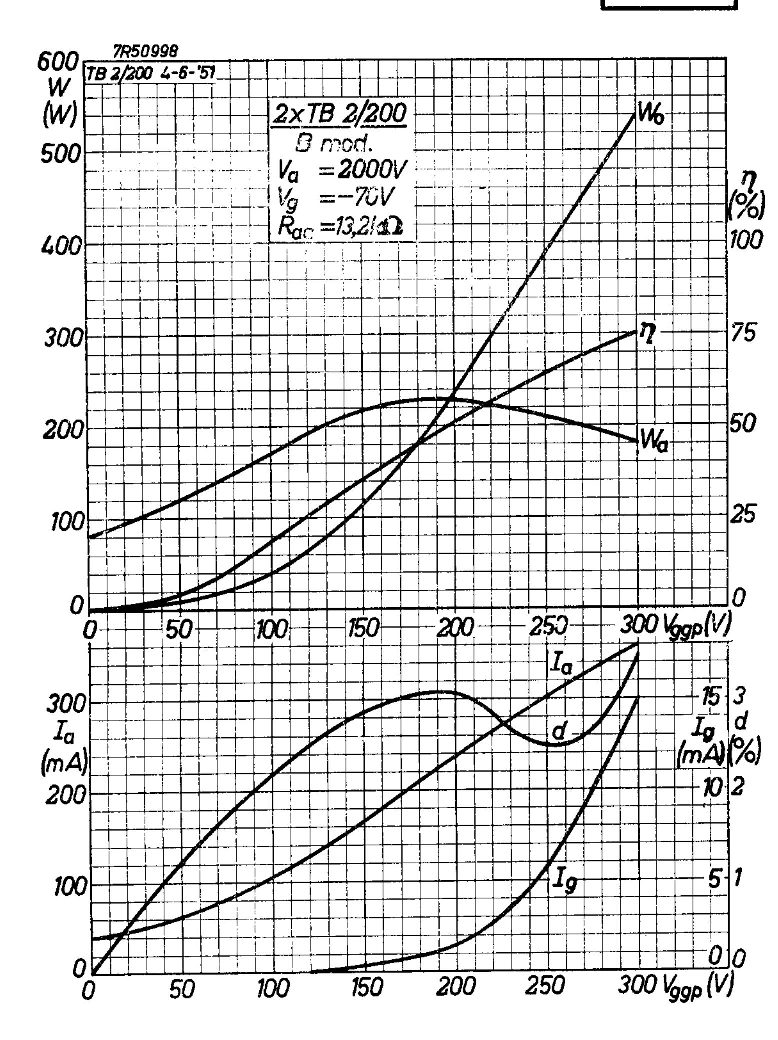
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D

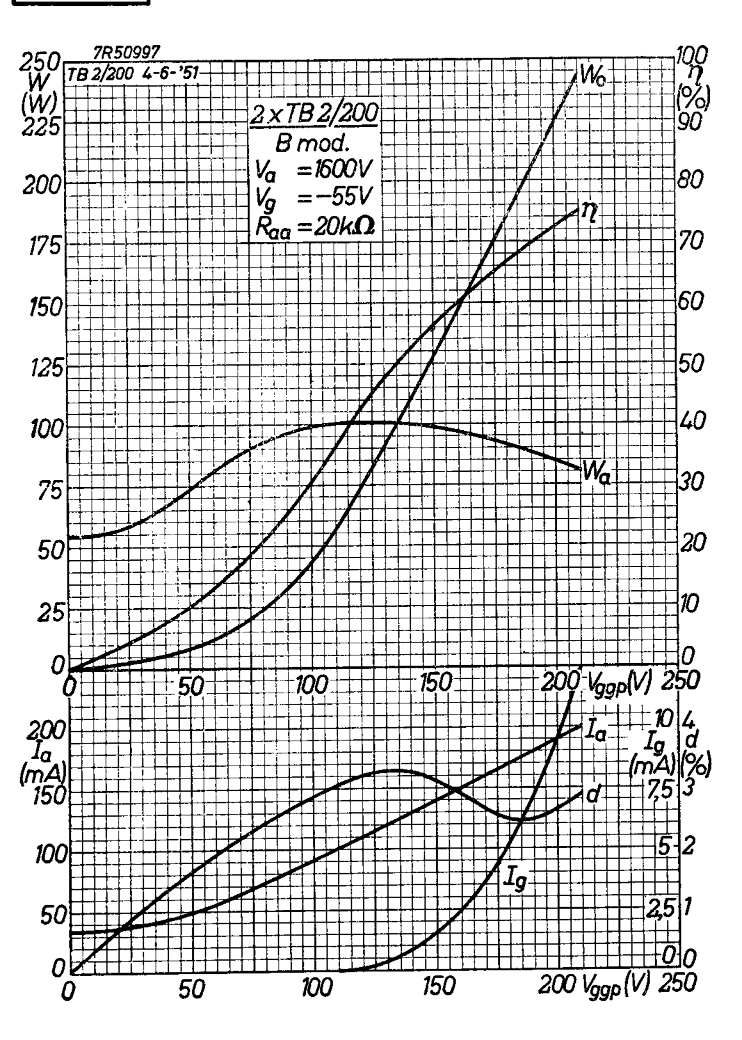
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TB 2/200



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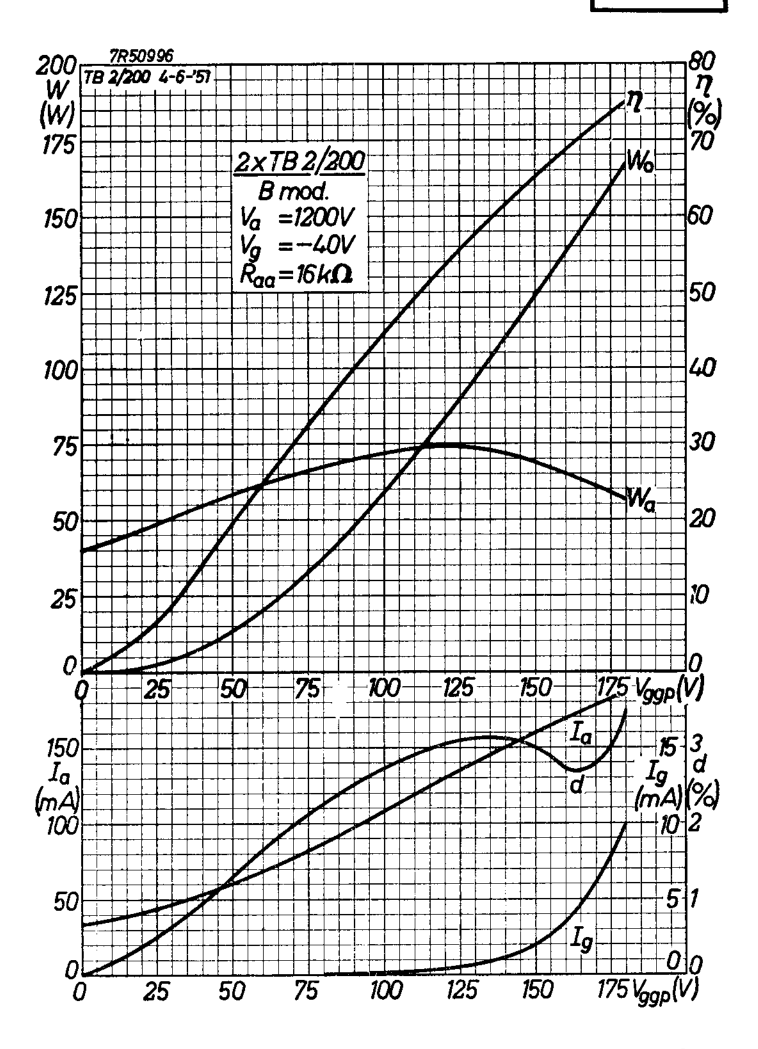
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7R50997
TB 2/200 4-6-'51
2 x TB 2/200
B mod.
Va = 1600V
Vg = −55V
Raa = 20kΩ
W
(W)
η
(%)
Wo
η
Wa
Vggp(V)
Ia
(mA)
Ig
(mA)
d
(%)
Ia
d
Ig

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TB 2/200





TB2/200

page	**sheet**	**date**
1	1	1954.07.07
2	2	1954.07.07
3	3	1951.06.06
4	4	1951.06.06
5	A	1949.07.07
6	B	1949.07.07
7	C	1949.07.07
8	D	1949.07.07
9	E	1951.06.06
10	F	1951.06.06
11	G	1951.06.06
12	FP	1999.11.18